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Supplementary Material

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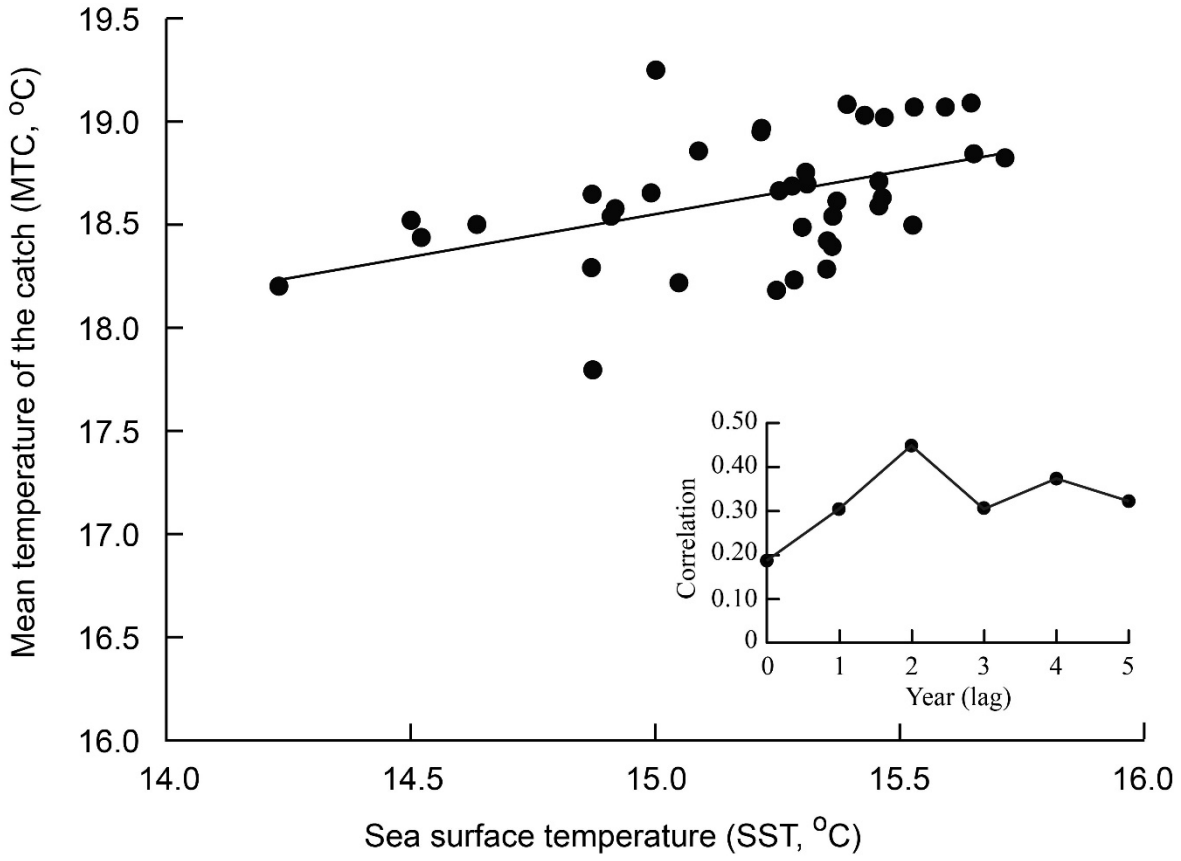

Fig. 3: Correlation (r = 0.45; p < 0.01) between the mean of SST on 3 points of the Turkish EEZ in the Black Sea and the Mean Temperature of the Catch (MTC) in that same EEZ, lagged 2 years. The insert shows the correlations at lags 0 to 5 years; the regression equation was MTC = 12 + 0.41(SST, in °Celsius) and a lag of 2 years were used to generate the continuous, but fluctuating line in Figure 2D.

Table 1a. List of the fishes includes in the present study and their corresponding trophic level (TL; from FishBase) and temperature preference (TP; from Cheung *et al.,* 2013); n: number of TL estimates available from FishBase. SE: standard error of median TL. When n was < 3, the average TL was used, and standard deviations (SD) are given. Regions: EM = Eastern Mediterranean; BS = Black Sea.

Taxa	TL	±SE	±SD	n	TP	Region
Alosa fallax	3.6	-	-	1	15	EM, BS
Argyrosomus regius	4.3	0.75	-	1	19	EM, BS
Atherinidae	3.2	0.20	-	6	15	EM, BS
Auxis spp.	4.3	0.10	-	4	27	EM, BS
Belone belone	4.2	0.10	-	3	15	EM, BS
Boops boops	2.9	-	0.5	2	20	EM, BS

Chelidonichthys lucerna	3.6	0.10	-	3	15	EM, BS
Conger conger	4.3	0.10	-	3	16	EM, BS
Dentex dentex	4.5	-	-	2	19	EM, BS
Dentex gibbosus	4.1	-	-	1	21	EM
Dentex macrophthalmus	3.4	0.20	-	3	23	EM
Dentex maroccanus	3.9	-	-	1	19	EM
Diplodus annularis	3.2	0.10	-	3	13	EM
Diplodus puntazzo	3.0	-	-	1	23	EM
Diplodus sargus	3.0	0.20	-	4	22	EM, BS
Diplodus vulgaris	3.2	0.20	-	4	21	EM, BS
Engraulis encrasicolus	3.4	0.30	-	3	19	EM, BS
Epinephelus aeneus	3.8	-	-	1	27	EM
Epinephelus caninus	4.1	-	-	1	26	EM
Epinephelus costae	3.9	-	-	1	26	EM
Epinephelus marginatus	3.9	0.12	-	3	25	EM
Euthynnus alletteratus	4.5	-	-	1	23	EM,BS
Gaidropsarus mediterraneus	3.6	0.03	-	4	16	EM,BS
Gobius niger	3.3	0.06	-	6	12	EM,BS
Lepidorhombus spp	4.0	0.10	-	6	15	EM
Lichia amia	4.5	-	-	1	26	EM, BS
Lithognathus	3.4	-	0.1	2	24	EM, BS
Lophius piscatorius	4.5	0.04	-	5	14	EM, BS
Merlangius merlangus	4.4	-	0.1	2	11	EM, BS
Merluccius merluccius	4.3	0.13	-	4	18	EM, BS
Micromesistius poutassou	4.0	0.10	-	5	15	EM
Mugilidae (EM)[1]	2.5	0.08	-	10	15	EM
Mugilidae (BS)[2]	2.4	0.08	-	11	16	BS
Mullus barbatus	3.2	0.06	-	14	17	EM, BS
Mullus surmuletus	3.4	0.03	-	12	19	EM, BS
Oblada melanura	3.0	-	-	1	24	EM, BS
Pagellus erythrinus	3.4	0.05	-	16	18	EM, BS
Pagrus caeruleostictus	3.8	-	-	1	24	EM
Pagrus pagrus	3.9	0.06	-	7	25	EM
Peristedion cataphractum	3.6	-	-		24	EM
Phycis blennoides	3.6	-	0.1	2	16	EM, BS
Phycis phycis	4.2	0.06	-	5	20	EM
Pomatomus saltatrix	4.5	-	-	1	27	EM, BS
Raja clavata	4.3	-	-	2	17	EM, BS
Sarda sarda	4.5	-	-	1	23	EM, BS
Sardina pilchardus	3.1	0.03	-	3	16	EM, BS
Sarpa salpa	2.3	0.17	-	4	25	EM, BS
Sciaena umbra	3.8	-	-	1	19	EM, BS
Scomber colias	3.6	0.16	-	6	12	EM, BS
Scomber scombrus	3.8	-	0.1	2	12	EM, BS
Scomberesox saurus	3.6	-	-	1	20	EM
Scomberomorus commersoni	4.5	-	-	1	28	EM
Scophthalmus spp	3.9	-	0.2	2	11	BS

Scorpaena porcus	3.9	0.08	-	9	18	EM, BS
Scorpaena scrofa	4.3	0.03	-	4	25	EM
Seriola dumerili	4.3	0.15	-	9	27	EM
Serranus cabrilla	4.3	0.19	-	5	23	EM
Serranus scriba	3.8	0.03	-	4	23	EM, BS
Soleidae & Pleuronectidae[3]	3.2	0.04	-	11	14	BS
Sphyraena spp	4.2	-	0.02	2	27	EM, BS
Spicara spp	3.3	0.06	-	5	16	EM, BS
Spondyliosoma cantharus	3.3	-	-	1	19	EM, BS
Squalus acanthias	4.5	-	-	1	16	EM, BS
Squatina spp	4.1	0.03	-	3	15	EM, BS
Synodontidae[4]	4.2	0.20	-	3	27	EM
Thunnus alalunga	4.3	-	-	1	27	EM
Thunnus thynnus	4.4	-	-	1	24	EM
Trachurus mediterraneus	3.6	0.09	-	5	19	EM, BS
Trachurus trachurus	3.7	0.10	-	4	18	EM, BS
Trigla lyra	3.5	0.07	-	4	24	EM, BS
Umbrina cirrosa	3.5	-	-	1	15	EM, BS
Xiphias gladius	4.5	-	-	2	26	EM, BS
Zeus faber	4.5	-	-	1	17	EM, BS

1) Mugilidae (EM): *Mugil cephalus, Chelon labrosus, L. aurata, L. saliens;*
2) Mugilidae (BS): *Mugil cephalus,Chelon labrosus, Liza aurata, L. saliens L. haematocheli;*
3) Soleidae & Pleuronectidae: *Solea solea, Platichthys flesus*;
4) Synodontidae: *Synodus saurus, Saurida undosquamis.*

Table 1b. List of the invertebrates included in the present study, their trophic level (TL; from SeaLifeBase) and temperature preference (TP; from Cheung *et al*., 2013) by region (EM = Eastern Mediterranean; BS = Black Sea.

Species	**TL**	**TP**	**Region**
Callinectes sapidus	3.5	25	EM
Cancer pagurus	2.6	14	EM, BS
Chamelea gallina	2.1	14	BS
Homarus gammarus	2.6	14	EM
Loligo vulgaris	4.1	18	EM
Melicertus kerathurus	2.0	27	EM
Metapenaeus monoceros	2.0	27	EM
Mytilus galloprovincialis	2.5	17	BS
Nephrops norvegicus	2.2	17	EM
Parapenaeus longirostris	2.7	25	EM
Penaeus monodon	2.7	26	EM
Penaeus semisulcatus	2.7	27	EM
Portunus pelagicus	2.0	27	EM
Sepia officinalis	3.6	19	EM
Squilla mantis	2.7	22	EM